

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☐

OTHER

Gas Storage

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Mountain Fuel Resources, Inc.

## 3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface

366' ENL, 1413' FEL NW NE

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

41 miles south of Rock Springs, Wyoming

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

366'

## 16. NO. OF ACRES IN LEASE

480

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

-

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1100'

## 19. PROPOSED DEPTH

6280'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 6810'

## 22. APPROX. DATE WORK WILL START\*

After Unit #40-S

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" new	36#, K-55	300'	180 sx, 3% CaCl
8-3/4"	7" new	23#, K-55	6280'	To be determined

We would like to drill the subject well to an estimated depth of 6280', anticipated formation tops are as follows: Mancos at the surface, Frontier at 5685', Mowry at 5895', Dakota at 6080', and Morrison at 6236'.

Mud will be adequate to contain formation fluids and in sufficient quantities to efficiently drill the well; blowout preventers will be checked daily and pressure tested after each string of casing is set; no cores, no DST's; no mud logging unit: 20 days drilling time; no abnormal temperatures; no anticipated; probably run Laterlog & CDL logs.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING  
DATE: 2-18-77  
BY: C.B. Light

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

## 24.

Manager, Drilling and  
Petroleum Engineering

SIGNED

R. L. Myers

TITLE

DATE

Feb. 12, 1977

(This space for Federal or State office use)

PERMIT NO.

43-009-30032

APPROVAL DATE

APPROVED BY

Cass 164-1

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

Well Name Clay Basin Unit Well No. 41-SLocation SE NE 26-3N-24EDaggett County, Utah

<u>Wellhead Equipment</u>	<u>Size</u>	<u>Pressure Rating</u>	<u>Pressure Test</u>
Surface Casing Flange	10	3000	
Casing Spool			
Tubing Spool	10 x 6	3,000	6,000
Tubing Bonnet	10 x 4	3,000	6,000

<u>Flow Out Preventers</u> (Top to Bottom)	<u>Size</u>	<u>PRI Rating</u>	<u>PRI Test</u>	<u>Bag</u>	<u>Range</u>
	10	3,000	6,000		Blind
	10	3,000	6,000		4-1/2
<u>Gas Buster</u>	<u>Yes</u>	<u>X</u> No	<u>Degasser</u>	<u>Yes</u>	<u>X</u> No

Kill or Control Manifold

<u>2"</u> Size	<u>3,000</u> Pressure Rating	<u>6,000</u> Pressure Rating Test	<u>No</u> Hydraulic Valves
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<u>Auxiliary Equipment</u>	<u>Kelly Cock</u>	<u>X</u> Yes	<u>No</u>
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<u>Monitoring Equipment on Mud System</u>	<u>X</u> Yes	<u>No</u>
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<u>Full Opening Drill Pipe Stabbing Valve on Floor</u>	<u>X</u> Yes	<u>No</u>
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<u>Type of Drilling Fluid</u>	<u>X</u> Water Base Mud	<u>Air</u>	<u>Gas</u>	<u>Oil Base Mud</u>
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<u>Anticipated Bottom Hole Pressure</u>	<u>500</u> PSI
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# CHECKLIST 3000psi EQUIPMENT

Well: \_\_\_\_\_ Casing: \_\_\_\_\_

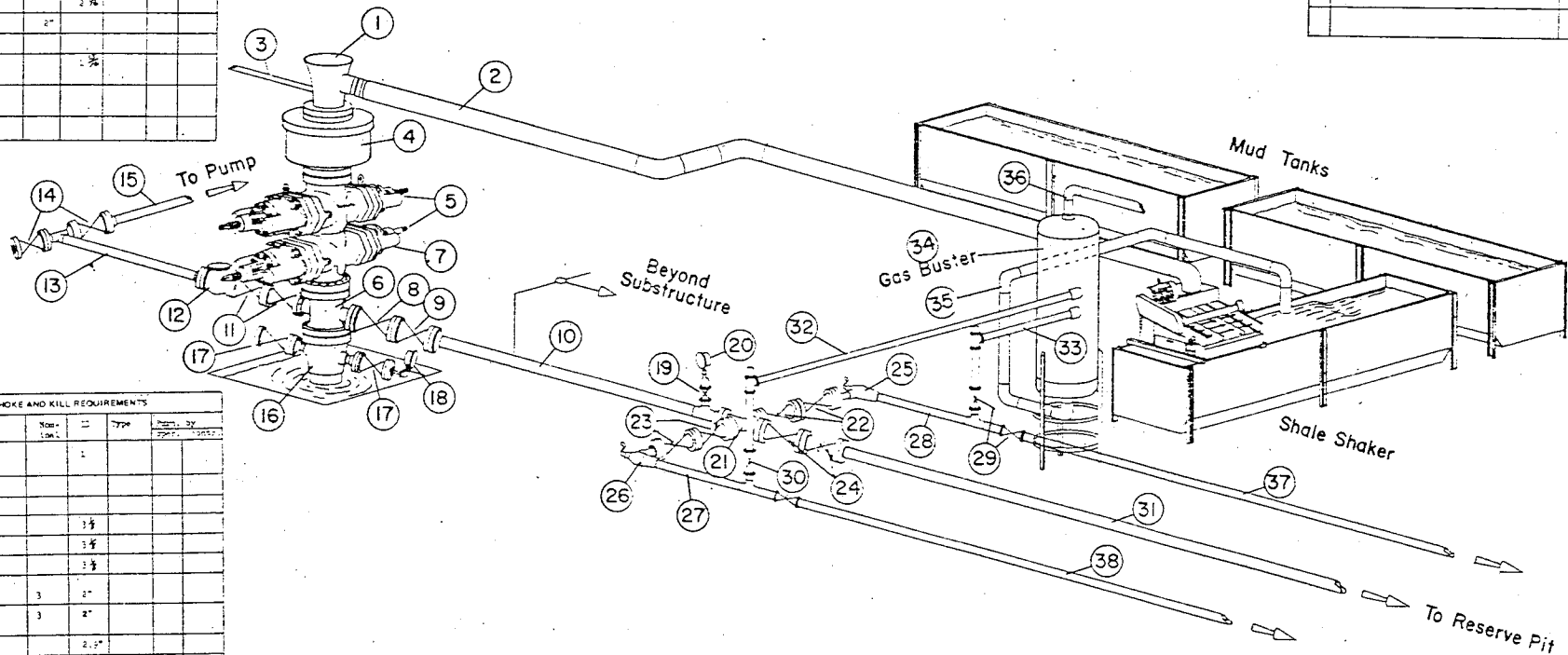
Contractor and operator to furnish items checked (x)

STANDARD STACK REQUIREMENTS					
No.	Item	Size	Qty	Type	Prov. by
1	Drilling Nipple				
2	Flowline				
3	Pill up Line	2"			
4	Annular Preventer			Hydril Cameron Shaffer	
5	Two single or one dual Hys. oper. seal			10, 20, 25, 30	
6	Drilling Spool with 2" and 3" outlets			Paragon	
7	as alternate to (6) Run and Kill lines from outlets in this area				
8	Valve Gate	1 1/2"			
9	Valve-Optimally operated Gate	1 1/2"			
10	Choke Line	2 1/2"			
11	Gate Valves	1 1/2"			
12	Check Valve	1 1/2"			
13	Kill Line	2"			
14	Valve-Gate	2 1/2"			
15	Kill Line to Pump	2"			
16	Casing Head				
17	Valves Gate Plug	1 1/2"			
18	Compound Pressure Valve				
19	Wear running				

## MOUNTAIN FUEL SUPPLY COMPANY 3000 psi BLOWOUT PREVENTION EQUIPMENT

SPECIAL CHOKES AND KILL REQUIREMENTS					

SPECIAL STACK REQUIREMENTS					



STANDARD CHOKES AND KILL REQUIREMENTS					
No.	Item	Size	Qty	Type	Prov. by
19	Valve Gate Plug	1 1/2"			
20	Compound Pressure				
21	Choke 3" x 3"				
22	Valve Gate	1 1/2"			
23	Valve Gate	1 1/2"			
24	Valve Gate	1 1/2"			
25	Choke 3" x 3" H-2 or Equivalent	3	2"		
26	Choke 3" x 3" H-2 or Equivalent	3	2"		
27	Line to Separator	2 1/2"			
28	Line to Separator	2 1/2"			
29	Valve Gate	1 1/2"			
30	Valve Gate	1 1/2"			
31	Line to Res. Pit	2 1/2"			
32	Line to Separator	2 1/2"			
33	Line to Separator	2 1/2"			
34	Separator				
35	Discharge Line				
36	Vent Line				
37	Line to Res.	2 1/2"			
38	Line to Res. Pit	2 1/2"			

DEVELOPMENT PLAN FOR U.S.G.S. APPROVAL OF SURFACE USE  
MOUNTAIN FUEL SUPPLY COMPANY DRILLING WELLS

Well Name - Clay Basin Well No. 41-S

Field or Area - Clay Basin, Daggett County, Utah

1. Existing Roads -

- A) Proposed well site as staked - Refer to well location plat No. M-12383 for location of well access road and directional reference stakes.
- B) Route and distance from nearest town or locatable reference point to where well access route leaves main road - Refer to lateral map No. M-9030. From the Wyoming-Utah State Line to Rock Springs, Wyoming is 50 miles.
- C) Access road to location - Refer to lateral map No. M-9030 and well site map No. M-12383 for access road from Wyoming-Utah State Line to Clay Basin Unit Well No. 41-S.
- D) If exploratory well, all existing roads within a 3-mile radius of well site - Not an exploratory well
- E) If development well, all existing roads within a 1-mile radius - This will be a storage development well. Refer to lateral map No. M-9030 for existing roads.
- F) Plans for improvement and/or maintenance of existing roads - All existing roads will be maintained as needed by Mountain Fuel equipment. An existing trail as shown on drawing Nos. M-12383 and M-9030 will be improved.

2. Planned Access Road -

- A) Width - 16' wide from shoulder to shoulder.
- B) Maximum grade - The maximum grade on the road is 8 percent.
- C) Turnouts - No turnouts will be constructed.
- D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.
- E) Location and size of culverts and description of major cuts and fills -
  - 1) No culverts are needed.
  - 2) No sidehill cuts
- F) Surfacing material - No surfacing material will be needed either on the road or location.
- G) Necessary gates, cattle guards or fence cuts - No cattle guards, gates, or fence cuts are anticipated.
- H) New or reconstructed roads - Refer to location plat No. M-12383.

3. Location of Existing Wells -

- A) Water wells - None within a one mile radius.
- B) Abandoned wells - None within a one mile radius.
- C) Temporarily abandoned wells - None within a one mile radius.

- D) Disposal wells - None within a one mile radius.
  - E) Drilling wells - No drilling wells within a one mile radius.
  - F) Producing wells - Clay Basin Well Nos. 15, 16, and 23 are productive gas wells.
  - G) Shut-in wells - None within a one mile radius.
  - H) Injection wells - Clay Basin Well Nos. 10 and 6 are injection/withdrawal storage wells.
  - I) Monitoring or observation wells for other resources - None within a one mile radius.
4. Location of Existing And/Or Proposed Facilities - Refer to area map No. M-9030
- A) 1) Tank batteries - None within a one mile radius.
  - 2) Production facilities - Each productive gas well has its own production facilities. Also, a compressor plant is located near Unit Well No. 3. Also, a compressor plant for injection is being built near Unit No. 3.
  - 3) Oil gathering lines -  
No oil gathering lines are located in the Clay Basin area.
  - 4) Gas gathering lines - Lateral Nos. 358, 432, and 292 are surface gas lines.
  - 5) Injection lines - Several injection/withdrawal lines are located within a one mile radius. Refer to area map No. M-9030.
  - 6) Disposal lines - None within a one mile radius.
  - B) 1) Proposed location and attendant lines by flagging if off the well pad -  
The well will be used as a gas storage well. A 6-inch buried line will be installed from the well to the central dehydration facilities as shown on drawing No. M-9030
  - 2) Dimensions of facilities - Refer to drawing No. M-12205.
  - 3) Construction methods and materials - No construction materials are anticipated. The dirt work will be done with a back hoe, i.e., ditches, dehydration base, take base, etc.
  - 4) Protective measures and devices to protect livestock and wildlife -  
The sump pit will be fenced as shown on drawing No. M-12205.
  - C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - After construction is complete, areas of non-use will be restored and seeded.
5. Location and Type of Water Supply -
- A) Location of water - The water withdrawal point on Red Creek is located in the SW 1/4 of Section 22, T.12N., R.105W., of the 6th P.M., Sweetwater County, Wyoming.
  - B) Method of transporting water - Water will be hauled by tank truck from Red Creek to Unit Well No. 41-S. The well access road, as shown on drawing No. M-9030, will be used as the water haul road.

- C) Water well to be drilled on lease - No water well will be drilled.
6. Source of Construction Material -
- A) Information - No construction material will be used.
- B) Identify if from Federal or Indian land -
- C) Where materials are to be obtained and used -
- D) Access roads crossing Federal or Indian lands -
7. Method for Handling Waste Disposal -
- A-D) Cuttings, drilling fluids, produced fluids, and sewage will be placed in the mud pit.
- E) Garbage and other waste material will be placed in the burn pit.
- F) After drilling operations have been completed, the location will be cleared of all litter, and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be pumped out and dumped on the existing roads. The mud pit will be covered over.
8. Ancillary Facilities - There now is a camp located in the NE 1/4 of Section 21, T.3N., R.24E. with housing and general camp facilities. A landing strip is located on the north line of Section 21. Water is piped to the camp from a spring to the west.
9. Well Site Layout -  
See drawing Nos. M-12383 and M-12384.
10. Plans for Restoration of Surface -
- A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. The reserve pit liquids will be pumped out and dumped on the existing roads.
- B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.
- C) Prior to rig release, pits will be fenced and so maintained until clean up.
- D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.
- E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.
11. Other Information -
- A) The location lies at the top of a deep canyon. The slope NW is  $\pm 3\%$ . The slope south is  $\pm 20\%$ . The soil is sandy. The vegetation is range grass, sagebrush, and cedar trees. The access road bears north to an existing trail. No cedar trees are located on the access road.
- B) The surface belongs to the U.S. Government.
- C) Water can be located in Red Creek. The Clay Basin camp is occupied by Mountain Fuel personnel. No historical, archaeological, or cultural sites are in the area to my knowledge.
12. Lessee's or Operator's Representative -  
D. E. Dallas, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, telephone 307-362-5611.

13. Certification -

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Mountain Fuel Supply Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date \_\_\_\_\_

Name Dale Dallas Elm  
Title Drilling Superintendent

cdk

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: Feb 16 -  
Operator: Mountain Fuel Resources  
Well No: Clay Basin Unit 41-5  
Location: Sec. 26 T. 3N R. 24E County: Duggett

File Prepared ☒ Entered on N.I.D. ☒  
Card Indexed ☒ Completion Sheet ☒

CHECKED BY:

Administrative Assistant *SA*

Remarks:

Petroleum Engineer *P*

Remarks:

Director *X*

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required ☐ Survey Plat Required ☐  
Order No. 164-1 ☒ Surface Casing Change ☐  
to \_\_\_\_\_

Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site ☐

O.K. Rule C-3 ☐ O.K. In Clay Basin Unit ☒

Other:

☒ Letter Written/Approved



## INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming

CITY

STATE

TO R. G. Myers

DATE May 2, 1977

SUBJECT Tentative Plan to Drill

Unit Well No. 41-S

Clay Basin Field

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated February 11, 1977.

TMC/gm

Attachment

cc: R. D. Cash  
E. R. Keller (3)  
G. A. Peppinger (3)  
A. J. Marushack  
A. K. Zuehlsdorff  
D. E. Dallas  
A. J. Maser (3)  
J. E. Adney  
E. J. Widic  
B. M. Steigleder  
E. A. Farmer  
D. L. Reese  
U.S.G.S.  
State  
Paul Zubatch  
P. E. Files (4)



From: Pat Brotherton

Rock Springs, Wyoming

To: T. M. Colson

May 2, 1977

Tentative Plan to Drill  
Unit Well No. 41-S  
Clay Basin Field

This well will be drilled to total depth by \_\_\_\_\_ Drilling Company. One work order has been originated for the drilling and completion of this well, namely 20051, Drill Unit Well No. 41-S, Clay Basin Field, located in the NW NE Sec. 26, T. 3 N., R. 24 E., Daggett County, Utah. An 8-3/4-inch hole will be drilled to a total depth of 6280 feet and 7-inch O.D. casing run. It is planned to complete the well as a gas storage well in the Dakota formation. Surface elevation is at 6810 feet.

1. Drill 12-1/4-inch hole to approximately 330 feet KBM.
2. Run and cement approximately 300 feet of 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing. The casing will be cemented by Dowell with 165 sacks of regular Type "G" cement with 5 percent D43-A, which represents theoretical requirements plus 100 percent excess cement for 9-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Plan on leaving a 10 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 50 barrels of mud. Capacity of the 9-5/8-inch O.D. casing is 24 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 9-5/8-inch O.D. casing. Install a 2-inch extra heavy nipple, 6-inches long, and

a Demco (2000 psi WOG, 4000 psi test) ball valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipping up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing is 3520 psi.

4. Drill 8-3/4-inch hole to the total depth of 6280 feet or to such depth as the Geological Department may recommend. The mud will consist of 2 percent potassium chloride water to 4500 feet. Mud up with the potassium Dexdrid Drispac system at this point to allow a 10 cc. water loss at 5980 feet. The 10 cc. water loss will be maintained to total depth at 6280 feet. If lost circulation is encountered, only acid soluble lost circulation material will be used. A mud cleaner will be used from surface to total depth to remove undesirable solids from the mud system and to keep the mud weight to a minimum. A Company Geologist will be on location to check cutting samples; 10 foot samples from 5400 feet to total depth. Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Mancos	Surface
Frontier	5,685
Mowry	5,895
Dakota	6,080
Morrison	6,236
Total Depth	6,280

Objective Reservoir: Dakota Formation

Other Possible

Producing Zones: Frontier Formation

5. Run a laterolog 7 with a split 4-decade logarithmic scale from surface casing to total depth. Run a compensated density/gamma ray/caliper from total depth at 6280 feet to 4280 feet. The 2000 feet logged represents the minimum footage for the log.
6. Assuming gas storage zones of good quality are present as indicated by log analysis, go into hole with 8-3/4-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
7. Run 7-inch O.D. casing as outlined in Item No. I, General Information, through the deepest producing zone as indicated by log analysis. A Baker 7-inch O.D., 8 round thread, Type G circulating differential fillup collar and guide shoe will be run as floating equipment. Rig up Dowell and cement casing with 50-50 Pozmix "A" cement. Bring cement top behind the 7-inch O.D. casing, 1000 feet above the uppermost producing zone as indicated by log analysis. Circulate 300 barrels of drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is approximately 247 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water. Bump plug with 2500 psi and hold for 15 minutes to pressure test casing. Minimum burst pressure of the 7-inch O.D., 23-pound, K-55 casing is 4360 psi.
8. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips in the 10-inch 3000 psi casing flange and record indicator weight. Install NSCo. Type DP-7, 10-inch 3000 psi by 6-inch

3000 psi tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing is 3280 psi. Install a steel plate on the 6-inch 3000 psi tubing spool flange.

9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
12. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 7-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit on 2-3/8-inch O.D., 4.7-pound, V-55, 8 round thread, EUE tubing to check plugged back depth. Rig up and displace drilling mud out of hole with drip oil. Pull and lay down 2-3/8-inch O.D. tubing.
14. Rig up Dresser Atlas perforating truck and perforate the Dakota storage sand with 2 HPF jumbo jet shots. The interval to be perforated will be chosen after the open hole logging has been reviewed and evaluated.
15. Rig up Dresser Atlas and run a Baker Model FB-1 packer (size 87-40) as follows:
  - Baker Model FB-1 packer (4.0-inch I.D. through packer)
  - 6 foot Baker millout extension (4.0-inch I.D.).
  - 10 foot Baker seal bore protector (4.0-inch I.D.) changeover.
  - 6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.
  - Baker Model "F" non-ported seating nipple (size 2.81).

6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "R" non-ported no-go seating nipple (size 2.75).

Set packer so that the bottom of the assembly is 30 feet above the perforations.

Perforations will be chosen after the open-hole logging is completed.

16. Install 4-1/2-inch rams in preventer. Pick up a Baker locator seal assembly and a Baker Model "L" sliding sleeve and run tubing as follows:

1 NSCo. DP4-H-1 tubing hanger tapped 4-1/2-inch O.D., 8 round thread, LT&C, top and bottom.

4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C pup joints, as required to space out.

Approximately 187 joints 4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing.

Baker Model "L" 4-1/2-inch O.D. sliding sleeve (size 3.812), in open position.

1 6 foot 4-1/2-inch O.D., 11.6-pound, J-55 pup joint.

Baker Model "G" locator seal assembly with 10 feet of seal extensions (I.D. 3.0-inches).

Land tubing in packer with 10,000 pounds compression. Space out and land in wellhead.

17. Install upper portion of wellhead.

18. Swab fluid out of wellbore. Run a short production test.

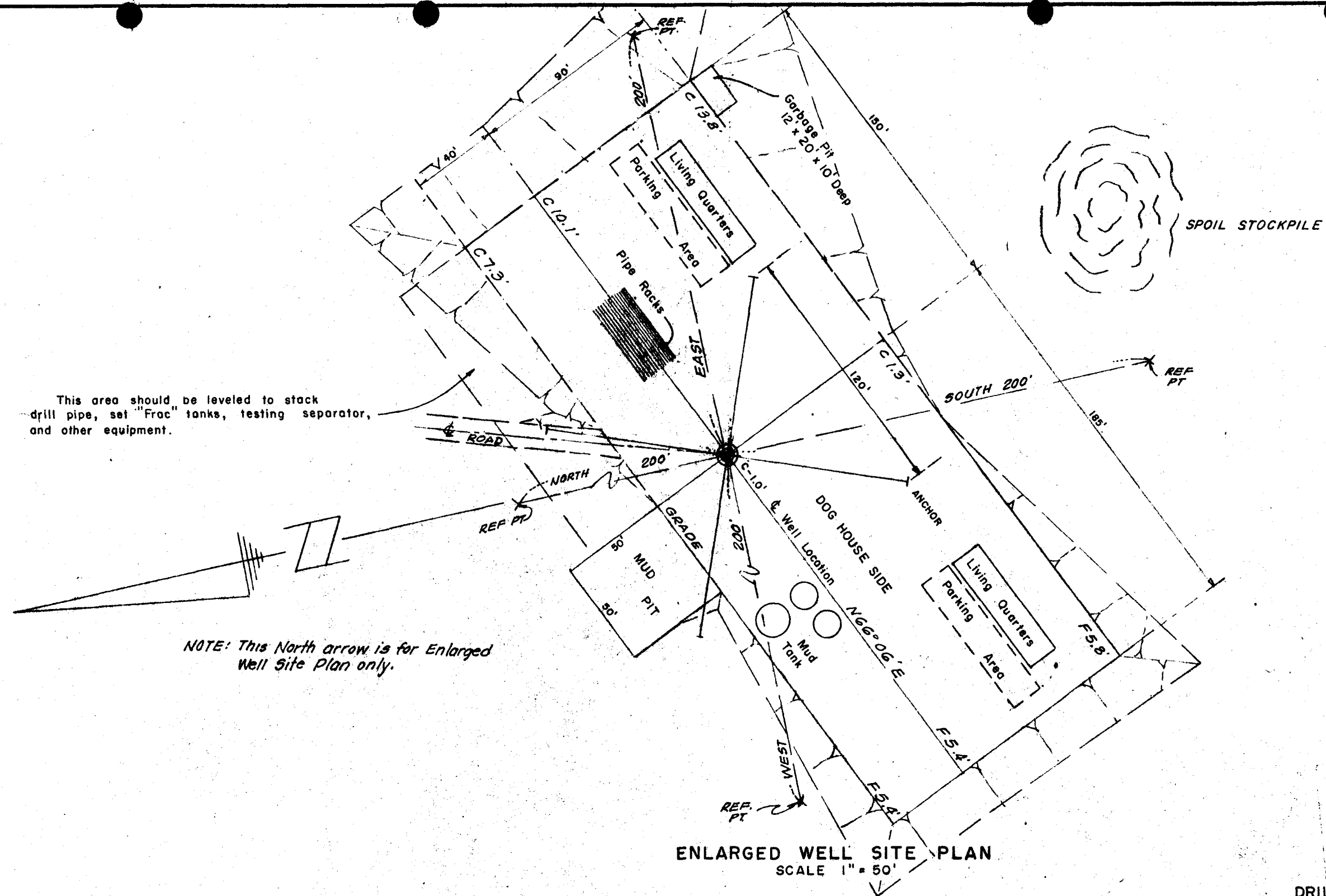
GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing	330	Warehouse Stock
	<u>Production Casing</u>	
7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing (Bottom 400 feet will be rough coated)	6,400	Warehouse Stock
	<u>Production Tubing</u>	
4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing	6,400	Warehouse Stock

II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.

III. Well responsibility - D. L. Reese or G. G. Francis



#### GENERAL NOTES:

At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, unlined.

For well location profiles see drawing number M-12384.

Area for well location = 1.0 acres.

#### LEGEND

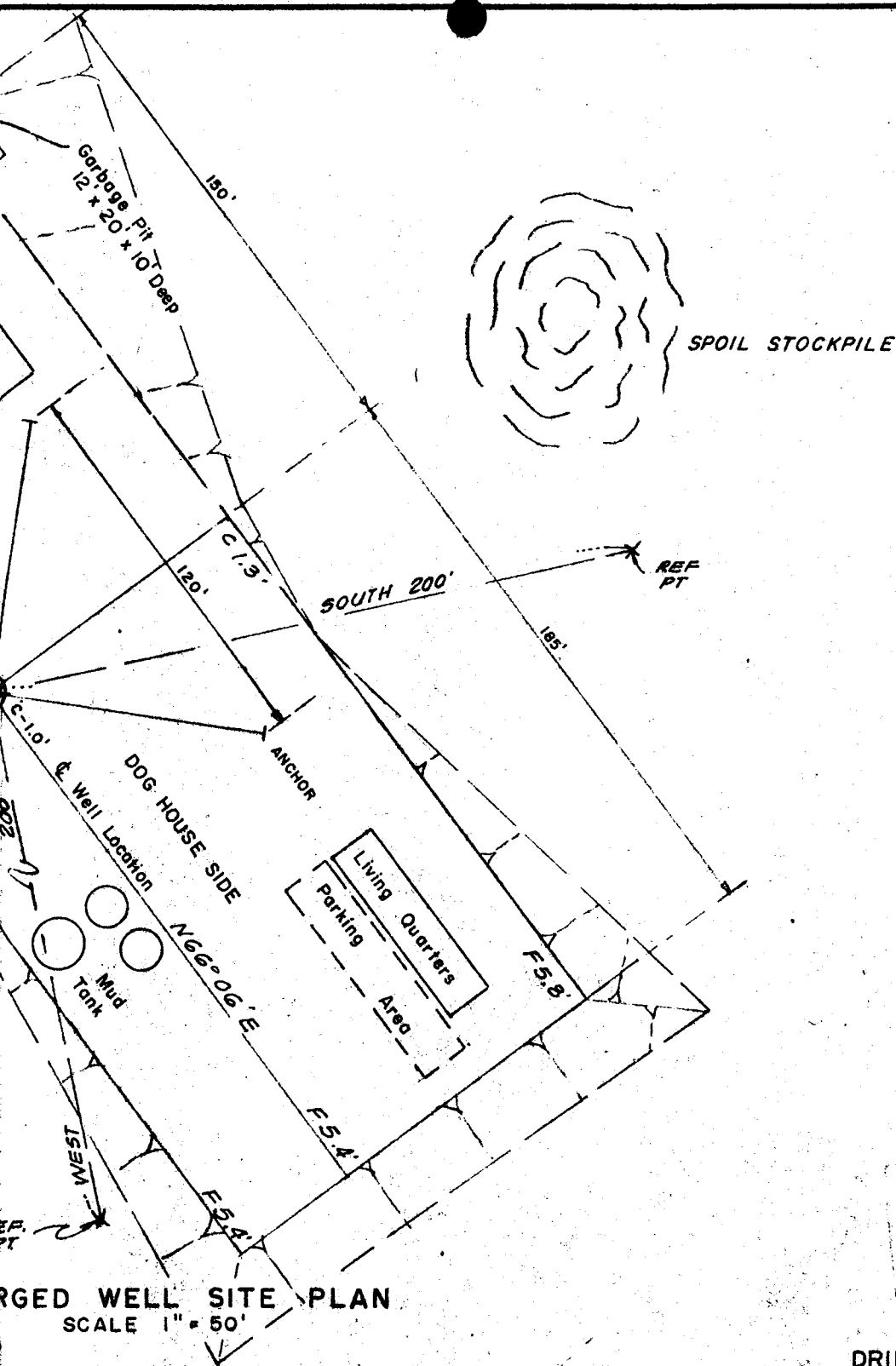
- ⊕ WELL
- ⊕ STONE CORNER
- ⊕ PIPE CORNER

#### ENGINEERING RECORD

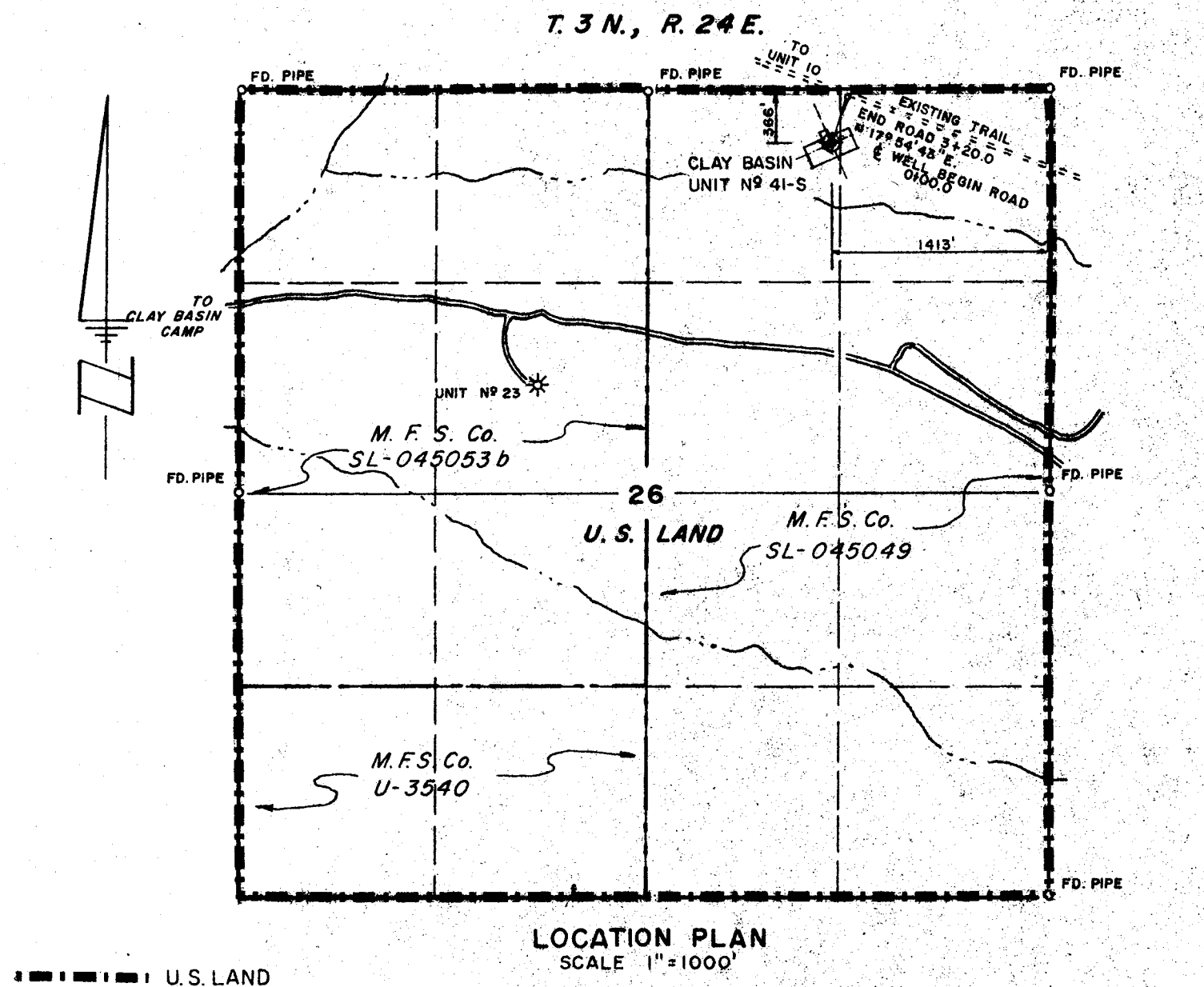
SURVEYED BY	S.M. Fabian 1/25/77
REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
LOCATION DATA	
FIELD	Clay Basin
LOCATION: NW 1/4, NE 1/4, Section 26, T.3N., R.24E., Salt Lake Meridian 366' FNL, 1413' FEL	
Daggett County, Utah	
WELL ELEVATION: 6810 (As Graded) by electronic vertical angle elevations from M.F.S.Co. bench mark Δ 126	

DRILLING W.O.









DRILLING W.O.



This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

*[Signature]*  
ENGINEER

UTAH REGISTRATION L.S. N° 3521

LEGEND		ENGINEERING RECORD		REVISIONS				 MOUNTAIN FUEL RESOURCES, INC.	
 WELL		SURVEYED BY	S.M. Fabian 1/25/77	NO.	DESCRIPTION	DATE	BY	CERTIFIED WELL LOCATION AND WELL SITE PLAN  CLAY BASIN UNIT WELL N° 41-S	
 STONE CORNER		REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>	1	Rotated location & rev. grades	3-1-77	A.H.W.		
 PIPE CORNER		LOCATION DATA							
		FIELD	Clay Basin						
		LOCATION: NW 1/4, NE 1/4, Section 26, T. 3 N., R. 24 E., Salt Lake Meridian 366' FNL, 1413' FEL							
		Daggett County, Utah						DRAWN: 1-27-77 C.R.W.	SCALE: AS NOTED
		WELL ELEVATION: 6810 (As Graded) by electronic vertical angle elevations from M.F.S.Co. bench mark Δ 126						CHECKED: G&L RWH	DRWG. NO. M-12383
								APPROVED:	1/2

6740

6730

6720

Natural Ground

Elev. 6727 As Graded

B

A

335'

6740

6730

6710

Elev. 6727 As Graded

Natural Ground

C

D

6740

6730

6720

Natural Ground

Elev. 6727 As Graded

A

C

6740

6730

6720

Elev. 6727 As Graded

Natural Ground

D

B

130'

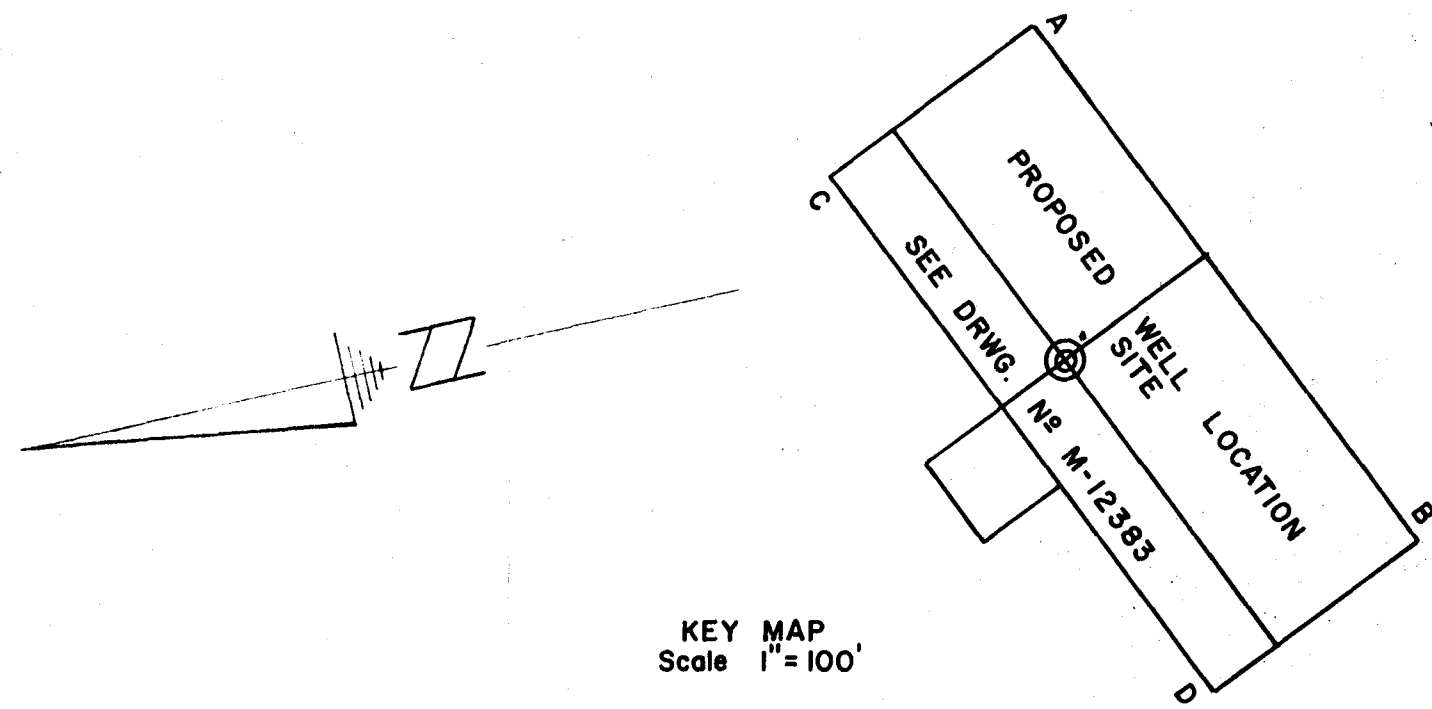
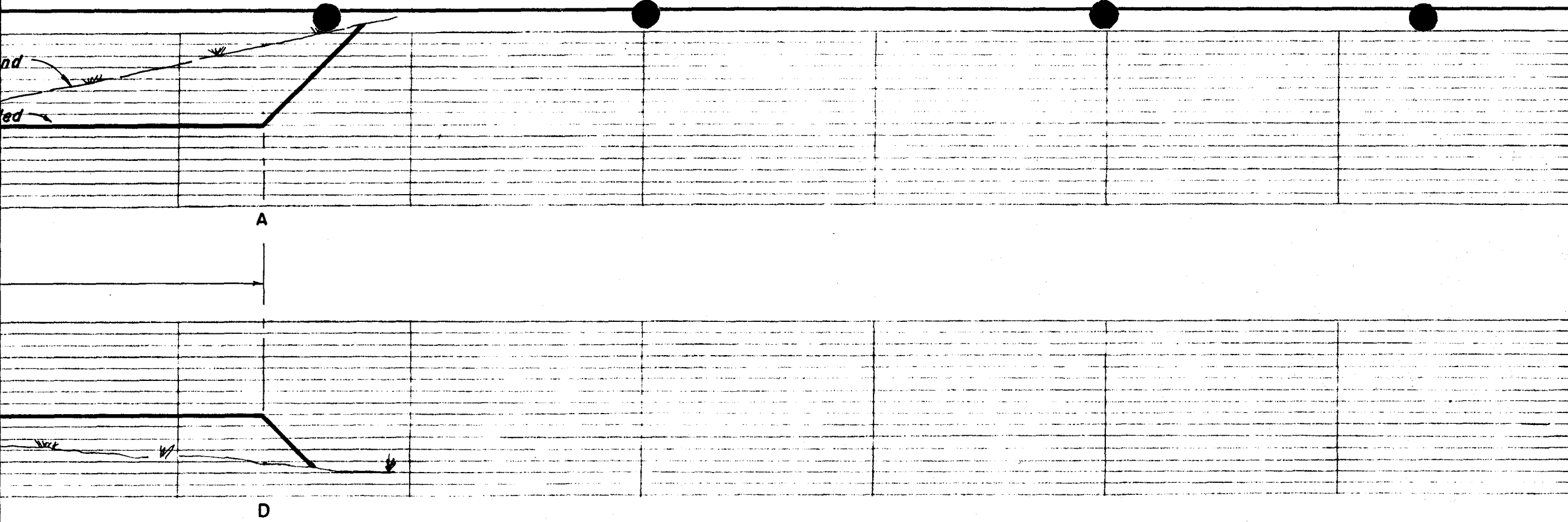
PROFILE SECTION - PROPOSED GRADED LOCATION

Scale


HORIZ. 1" = 50'

VERT. 1" = 20'





KEY MAP  
Scale 1" = 100'

REVISIONS				 <b>MOUNTAIN FUEL RESOURCES, INC.</b>
NO.	DESCRIPTION	DATE	BY	
1	Rotated location & rev. grades	5-1-77	A.H.W.	<b>PROFILES FOR CLAY BASIN UNIT WELL No 41-S WELL LOCATION SITE</b>
2	Rev. datum & as graded elev.	5-19-77	A.H.W.	
				DRAWN: 1-27-77 C.R.W.    SCALE: AS NOTED
				CHECKED: Gel    RWH    DRWG. NO. M-12384
				APPROVED:    2/2

This area should be leveled to stack drill pipe, set "Frac Tanks," testing separator, and other equipment.

Diagram labels and dimensions include:




- REF. PT. (Reference Point)
- WEST 200'
- 185'
- 50'
- MUD PIT
- 120'
- 50'
- 150'
- 200'
- REF. PT.
- NORTH
- DOG HOUSE SIDE
- PIPE RACK
- PARKING AREA
- LIVING QUARTERS
- 12 x 20 x 10' deep garbage pit
- EAST 200'
- REF. PT.
- ANCHOR
- LIVING QUARTERS
- WELL LOCATION C 1'-0" N 28° 45' 15" E
- MUD TANKS
- PARKING AREA
- SOUTH 200'
- ACCESS ROAD
- SOIL STOCKPILE
- U.S. LAND

ENLARGED WELL SITE PLAN  
SCALE 1" = 50'

DRILLING W.O.

Area for well location = 1.0 acre

## LEGEND

-  WELL  
 STONE CORNER  
 PIPE CORNER

# ENGINEERING RECORD

SURVEYED BY	<i>S. M. Fabian</i>	<i>1-25-77</i>
-------------	---------------------	----------------

REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
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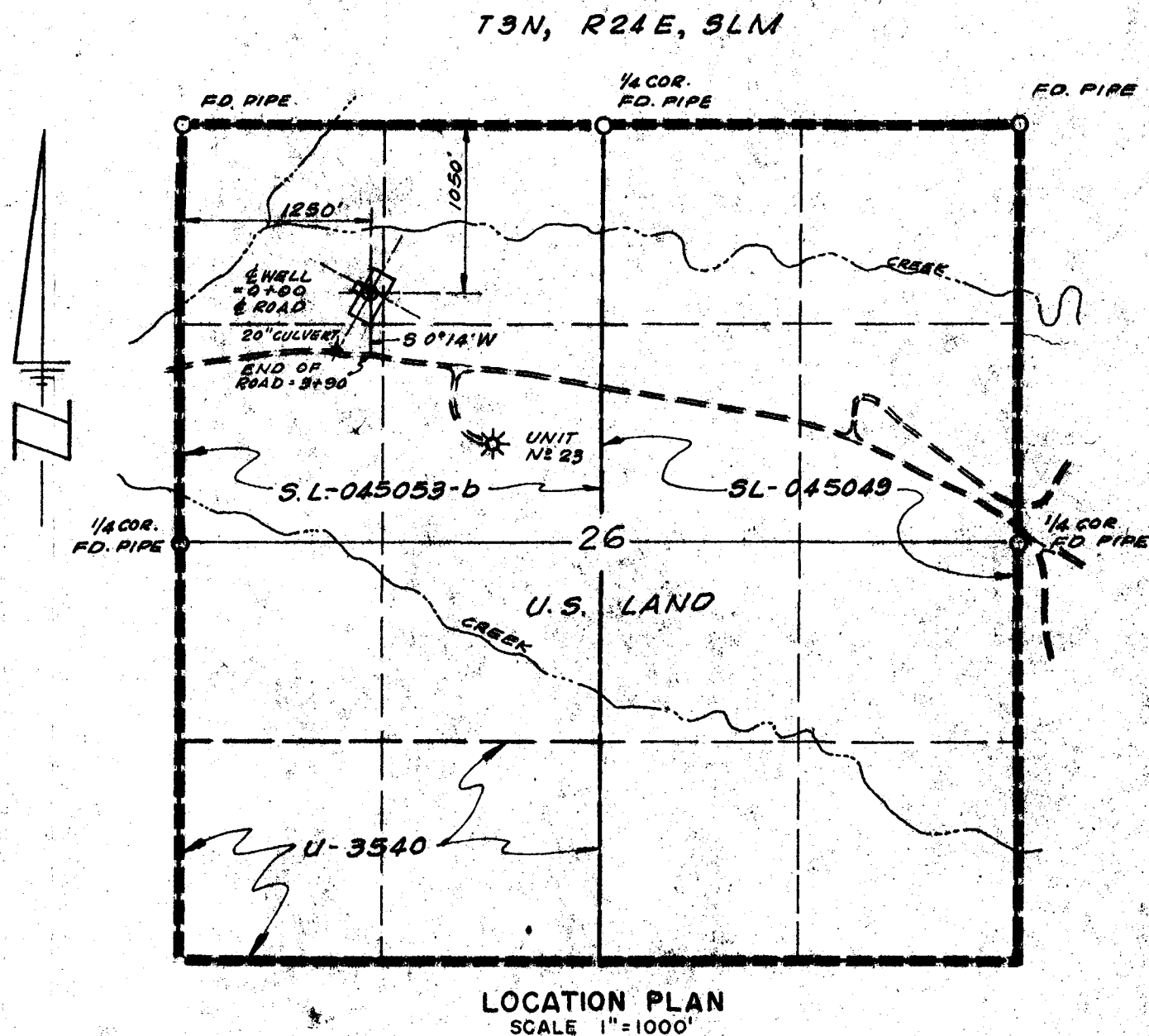
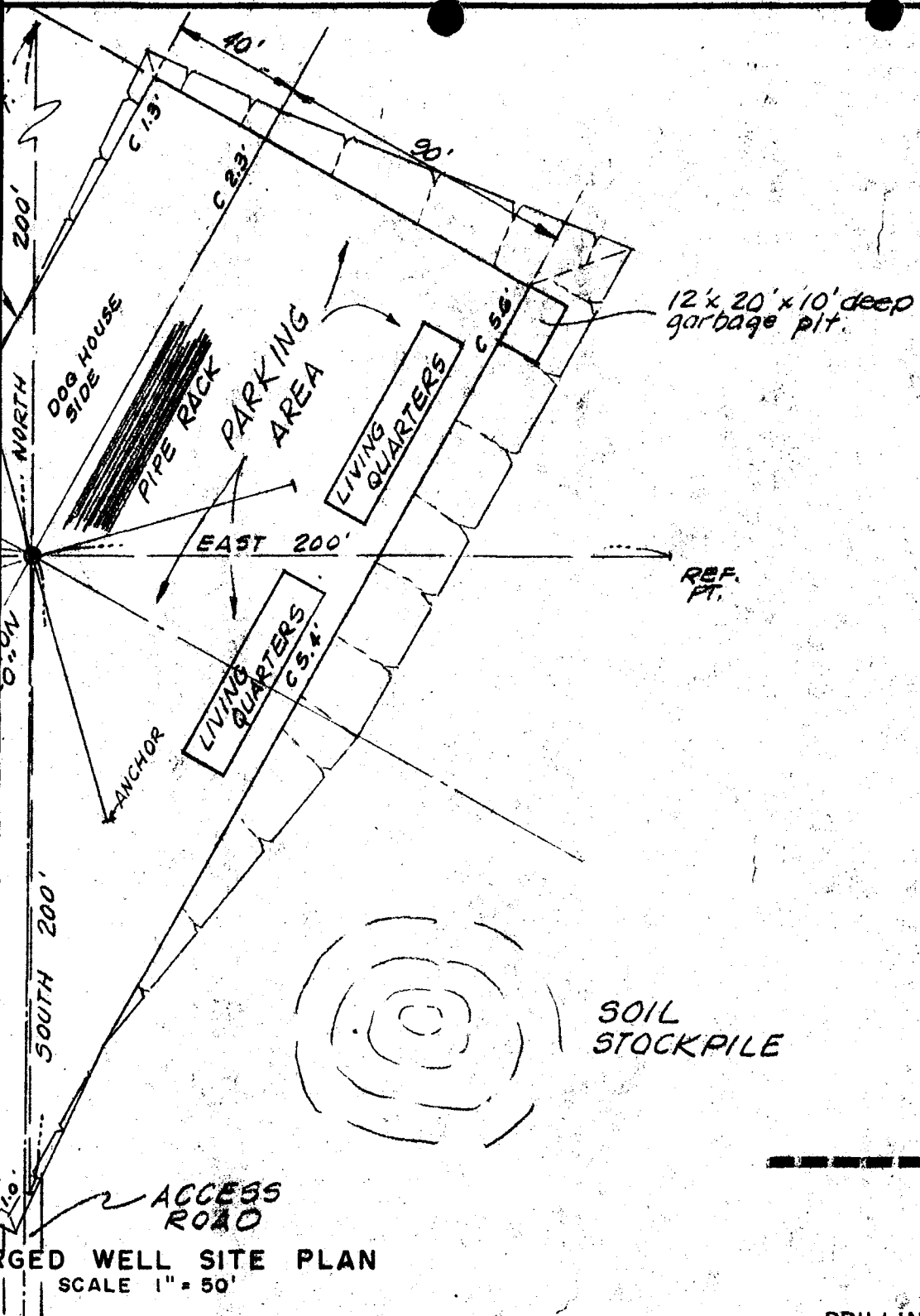
### LOCATION DATA

FIELD	Clay Basin
-------	------------

LOCATION: NW 1/4, NW 1/4. Sec 26, T. 3N., R. 24E.,  
S.L.M. 1050 FNL, 1250 FWL.

Daggett County, Utah

WELL ELEVATION: 6605 (as graded) by  
electronic vertical angle observation from  
MFS Co. BM. 4126

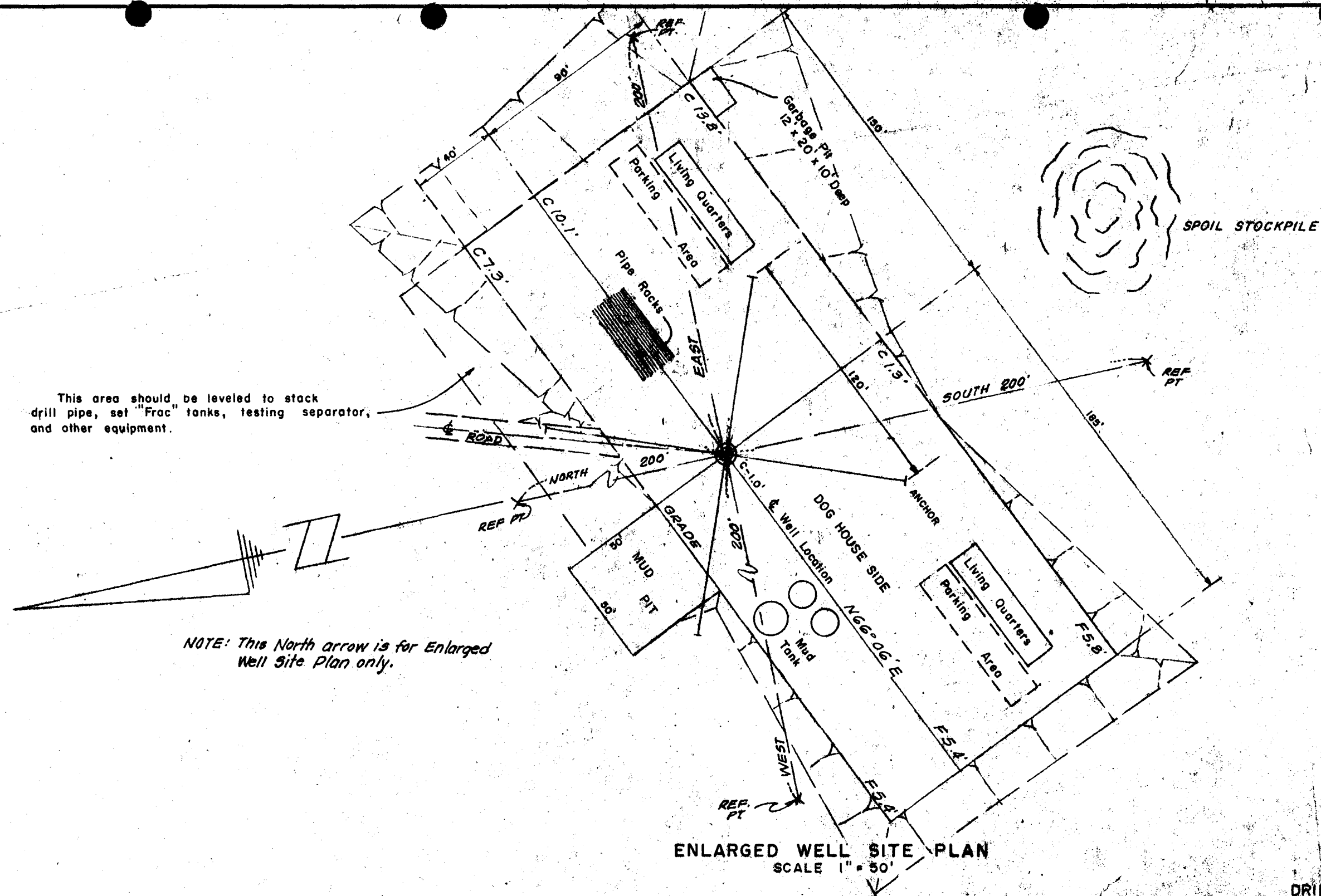


This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

*Shirley*  
ENGINEER  
UTAH REGISTRATION L.S. N° 3521

DRILLING W.O.

LEGEND		ENGINEERING RECORD		REVISIONS				MOUNTAIN FUEL RESOURCES INC.	
⊕	WELL	SURVEYED BY	S. M. Fabian 1-25-77	NO.	DESCRIPTION	DATE	BY	CERTIFIED WELL LOCATION AND WELL SITE PLAN <b>CLAY BASIN UNIT WELL N° 42-5</b>	
⊕	STONE CORNER	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>	1	Rev. as graded elev.	5-19-77	A.H.W.		
⊕	PIPE CORNER	LOCATION DATA							
		FIELD	Clay Basin						
		LOCATION: NW 1/4, NW 1/4, Sec 26, T. 3N, R. 24E., S.L.M. 1050 FNL, 1250 FWL.						DRAWN: 1-28-77 AHW SCALE: AS NOTED	
		Daggett County, Utah						CHECKED: GCL RWH DRWG. NO. M-12388	
		WELL ELEVATION: 6605 (as graded) by electronic vertical angle observation from M&S Co. B.M. A 126						APPROVED: <i>[Signature]</i>	
								FILE NO. A-11 SHEET 1 OF 2	



#### GENERAL NOTES:

At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, unlined.

For well location profiles see drawing number M-12384.

Area for well location = 1.0 acres.

#### LEGEND

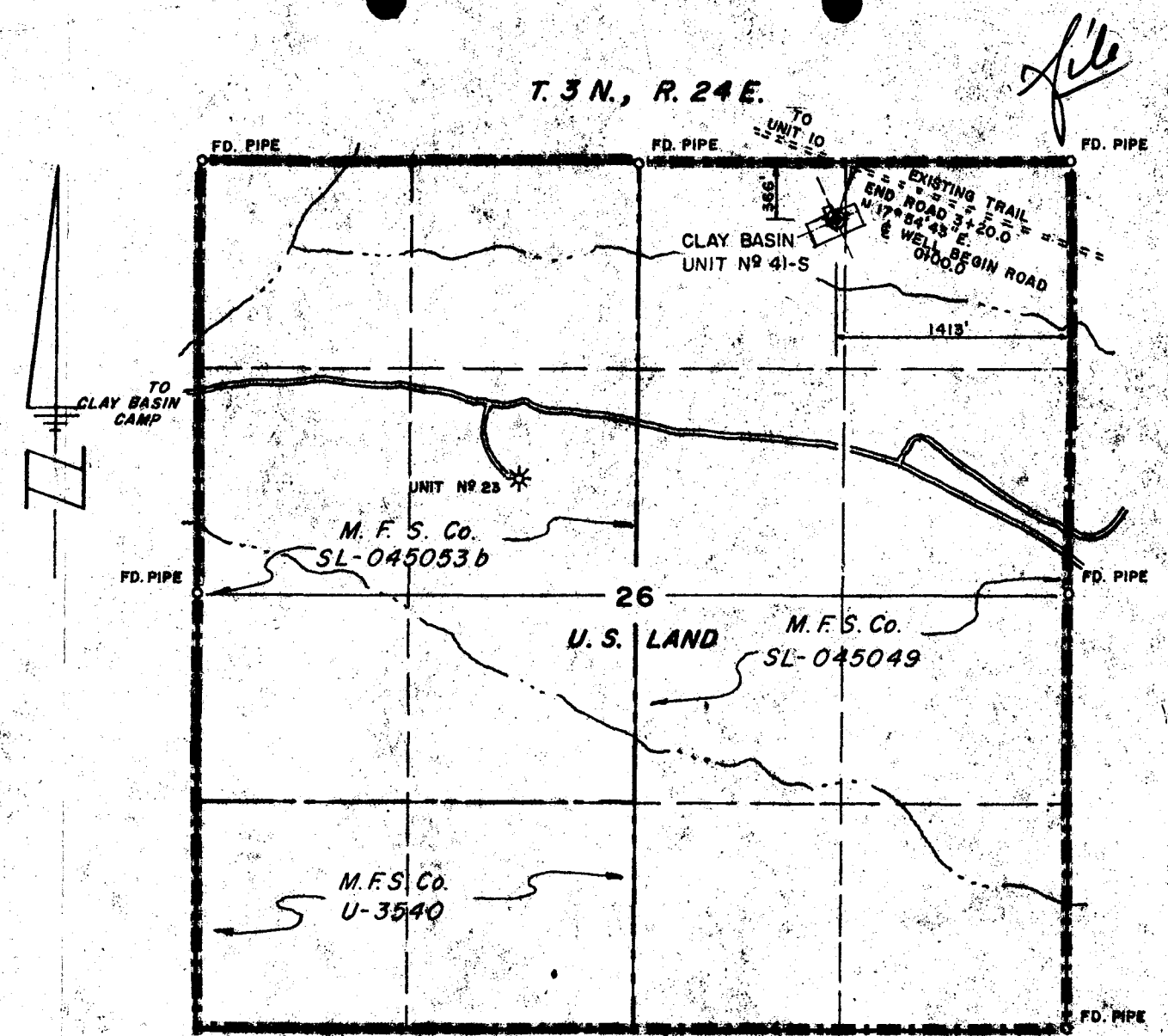
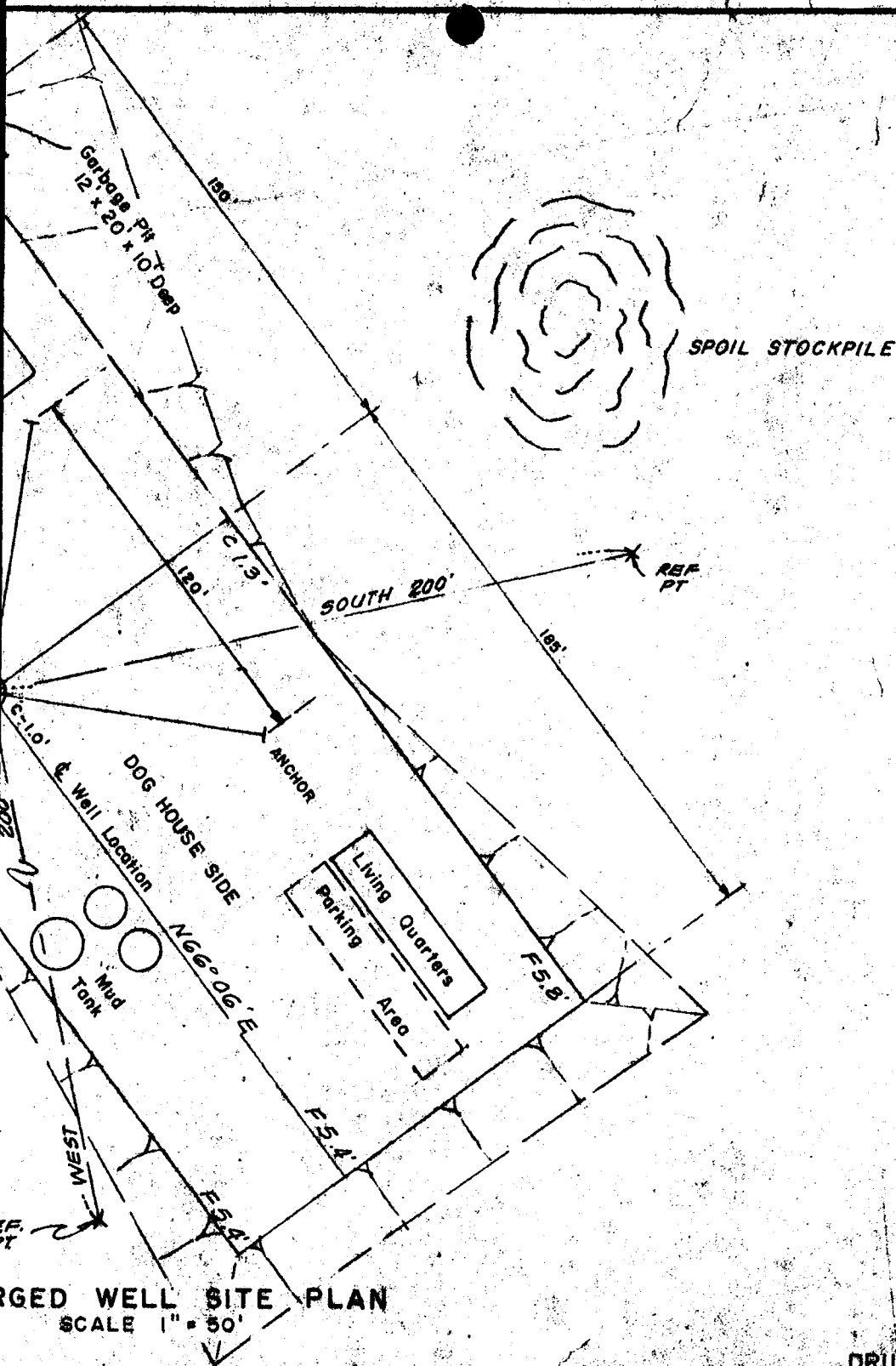
- ⊙ WELL
- ⊕ STONE CORNER
- ⊙ PIPE CORNER

#### ENGINEERING RECORD

SURVEYED BY	S.M. Robison 1/25/77
REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
LOCATION DATA	
FIELD	Clay Basin
LOCATION: NW 1/4, NE 1/4, Section 26, T.3N, R.24E., Salt Lake Meridian 366 FNL, 1413 FEL	
Daggett County, Utah	
WELL ELEVATION: 6727 (As Graded) by electronic vertical angle elevations from M.F.S.Co. bench mark Δ 126	






DRILLING W.O.





This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

*[Signature]*  
ENGINEER  
UTAH REGISTRATION L.S. NO 3521

LEGEND		ENGINEERING RECORD		REVISIONS				 MOUNTAIN FUEL RESOURCES, INC.	
 WELL		SURVEYED BY	S.M. Robison 1/25/77	NO.	DESCRIPTION	DATE	BY	 CERTIFIED WELL LOCATION AND WELL SITE PLAN <b>CLAY BASIN UNIT WELL N<sup>o</sup> 41-S</b>	
 STONE CORNER		REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>	1	Rotated location & rev. grades	5-1-77	A.H.W.		
 PIPE CORNER		LOCATION DATA		2	Rev. as graded elev.	5-19-77	A.H.W.		
		FIELD	Clay Basin						
		LOCATION: NW 1/4, NE 1/4, Section 26, T.3N., R.24E., Salt Lake Meridian 366' FNL, 1413' FEL							
		Daggett County, Utah							
		WELL ELEVATION: 6727 (As Graded) by electronic vertical angle elevations from M.F.S. Co. bench mark Δ 126						DRAWN: 127-77 C.R.W.	SCALE: AS NOTED
								CHECKED: GCL RWH	DRWG. NO. M-12383
								APPROVED:	1/2

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. SLC - 045049
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME P
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 366' FNL, 1413' FEL NW NE		8. FARM OR LEASE NAME Unit Well
14. PERMIT NO. API No.: 43-009-30032		9. WELL NO. 41-S
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6740.90' GR 6727'		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW NE 26-3N-24E
		12. COUNTY OR PARISH Daggett
		13. STATE Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON\* ☐CHANGE PLANS ☐

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) Supplementary history ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT\* ☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

## 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

TD 6275', PBD 6239', spudded 5-18-77, landed 9-5/" OD, 32.3#, H-40 casing at 265.77' KBM and set with 180 sacks regular G cement with 3% calcium chloride, cement in place 5-18-77; landed 7" OD, 23#, K-55, casing at 6265.01' and set with 570 sacks 50-50 Pozmix cement with 2% gel, cement in place 5-26-77, rig released May 27, 1977.

Moved in completion tools on 6-3-77, perforated Dakota from 6000' to 6013', 6022' to 6040' and 6073' to 6085' with 2 jumbo jet shots per foot, set packer at 5900', landed 4-1/2" tubing at 5903.67', swabbed well in, flowed to pit, rig released June 8, 1977.

18. I hereby certify that the foregoing is true and correct

SIGNED

*R. L. Myers*

TITLE

Manager, Drilling and  
Petroleum Engineering

DATE

June 9, 1977

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)Form approved.  
Budget Bureau No. 42-R355.5.

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other <u>Gas Storage</u>				5. LEASE DESIGNATION AND SERIAL NO. SLC - 045049	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME -	
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.				7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement	
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901				8. FARM OR LEASE NAME Unit Well	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 366' FNL, 1413' FEL NW NE At top prod. interval reported below At total depth				9. WELL NO. 41-S	
14. PERMIT NO. _____ DATE ISSUED _____				10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage	
API No.: 43-009-30032				11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA NW NE 26-3N-24E	
15. DATE SPUNDED 5-18-77		16. DATE T.D. REACHED 5-25-77		12. COUNTY OR PARISH Daggett	
17. DATE COMPL. (Ready to prod.) 6-8-77		18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* KB 6740.90' GR 6727'		13. STATE Utah	
19. ELEV. CASINGHEAD -		20. TOTAL DEPTH, MD & TVD 6275'		21. PLUG, BACK T.D., MD & TVD 6239'	
22. IF MULTIPLE COMPL., HOW MANY*		23. INTERVALS DRILLED BY 0-6275'		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6000-6013', 6022-6040', 6073-6085' Dakota	
25. WAS DIRECTIONAL SURVEY MADE No		26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Laterolog, Compensated Densilog		27. WAS WELL CORED No	
28. CASING RECORD (Report all strings set in well)					
CASINO SIZE		WEIGHT, LB./FT.		DEPTH SET (MD)	
9-5/8"		32.3#		265.77'	
7"		23#		6,265.01'	
29. LINER RECORD					
SIZE		TOP (MD)		BOTTOM (MD)	
30. TUBING RECORD					
SIZE		DEPTH SET (MD)		PACKER SET (MD)	
4-1/2		5,903.67'		5900'	
31. PERFORATION RECORD (Interval, size and number) 6000-6013', 6022-6040', 6073-6085', jumbo jet, 2 holes per foot					
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.					
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED			
33.* PRODUCTION					
DATE FIRST PRODUCTION -		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing - GAS STORAGE			WELL STATUS (Producing or shut-in) Shut in
DATE OF TEST -		HOURS TESTED -		CHOKE SIZE -	
PROD'N. FOR TEST PERIOD →		OIL—BBL. -		GAS—MCF. -	
WATER—BBL. -		GAS-OIL RATIO -			
FLOW. TUBING PRESS. -		CASING PRESSURE -		CALCULATED 24-HOUR RATE →	
OIL—BBL. -		GAS—MCF. -		WATER—BBL. -	
OIL GRAVITY-API (CORR.) -					
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) -					
TEST WITNESSED BY -					
35. LIST OF ATTACHMENTS Logs as above, Well Completion to be sent at a later date.					
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records Manager, Drilling and SIGNED <u>R. D. Meyer</u> TITLE <u>Petroleum Engineering</u> DATE <u>June 9, 1977</u>					

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

## 37. SUMMARY OF POROUS ZONES:

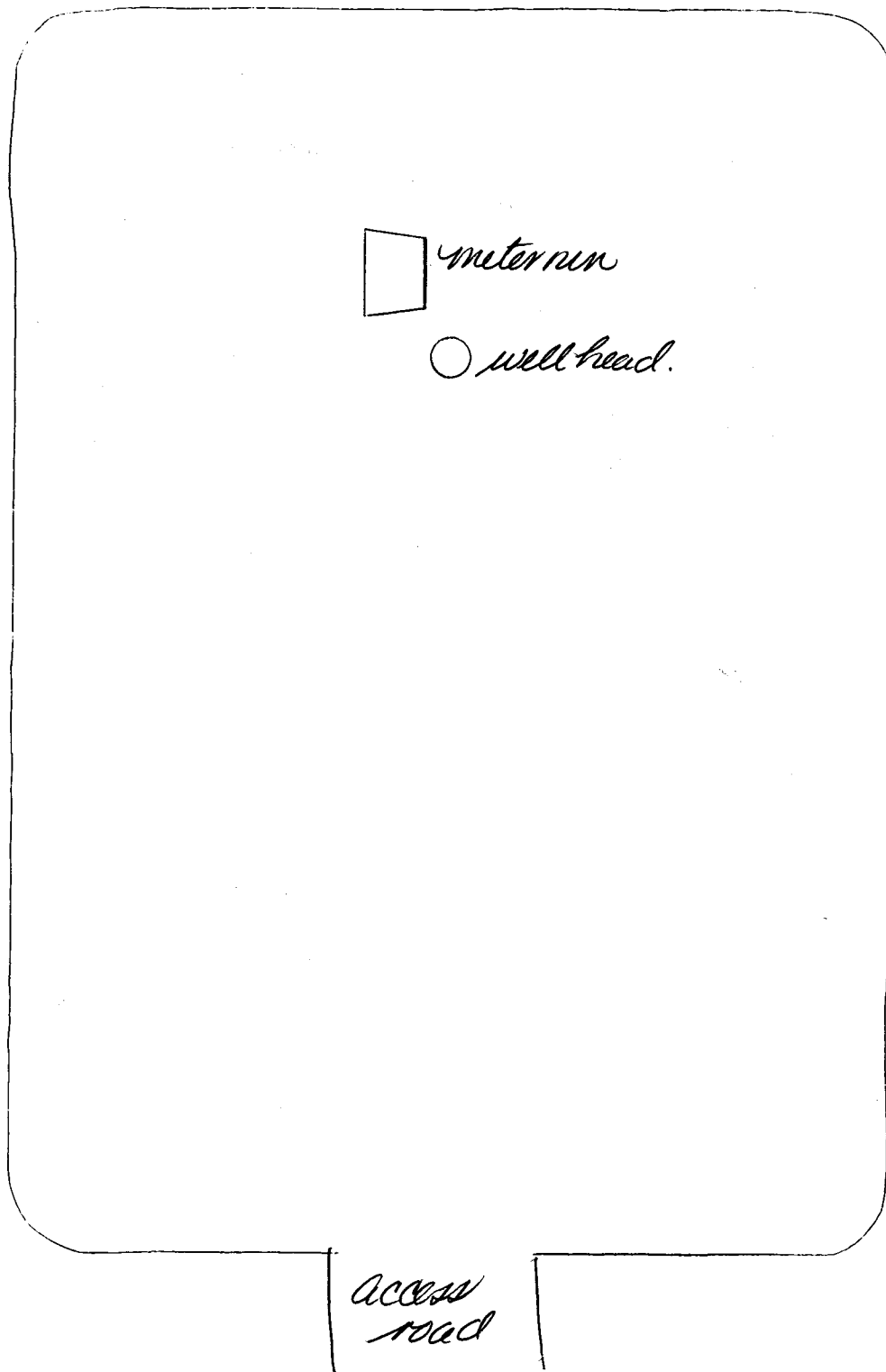
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Log tops:		
				Mancos	0'	
				Frontier	5616'	
				Kowry	5830'	
				Dakota	5990'	
				Morrison	6196'	

## 38. GEOLOGIC MARKERS

Clay Basin U#41-3 Sec 26, 3N, 24E

Ch. Day 14 June 88



42,381 50 SHEETS  
42,382 100 SHEETS  
42,383 150 SHEETS  
42,384 200 SHEETS  
42,385 250 SHEETS  
42,386 300 SHEETS  
42,387 350 SHEETS  
42,388 400 SHEETS  
42,389 450 SHEETS  
42,390 500 SHEETS  
42,391 550 SHEETS  
42,392 600 SHEETS  
42,393 650 SHEETS  
42,394 700 SHEETS  
42,395 750 SHEETS  
42,396 800 SHEETS  
42,397 850 SHEETS  
42,398 900 SHEETS  
42,399 950 SHEETS  
42,400 1000 SHEETS

NATIONAL

COMPLETION REPORT

Well: Clay Basin Unit No. 41-S Date: October 6, 1977

Area: Clay Basin Lease No: SLC 045049

☐ New Field Wildcat ☒ Development Well ☐ Shallower Pool Test  
☐ New Pool Wildcat ☐ Gas Storage ☐ Deeper Pool Test  
☐ Extension

Location: 366 feet from North line, 1413 feet from East line  
NW  $\frac{1}{4}$  NE  $\frac{1}{4}$

Section 26, Township 3 North, Range 24 East

County: Daggett State: Utah

Operator: Mountain Fuel Resources, Inc.

Elevation: KB 6740.90 Gr 6727 Total Depth: Driller 6275 Log 6264

Drilling Commenced: May 18, 1977 Drilling Completed: May 26, 1977

Rig Released: May 27, 1977 Well Completed: June 8, 1977

Sample Tops: (unadjusted)

Log Tops:

Mancos	Surface
Frontier	5616 (1125)
Mowry	5830 ( 911)
Dakota	5990 ( 751)
Morrison	6196 ( 545)

Sample Cuttings: None

Status: Gas storage injection/withdrawal well

Producing Formation: Dakota

Perforations: 6000-6013, 6022-6040, 6073-6085, jumbo jet, 2 holes per foot

Stimulation: None

Production: None reported

Plug Back Depth: 6239

Plugs: None

Hole Size: 12-1/4" to 314; 8-3/4" to 5501; 8-1/2" to 6275

Casing/Tubing: 9-5/8" to 265.77, 7" to 6265.01; 4-1/2" to 5903.67 with packer  
set at 5900

Logging - Mud: None

Mechanical: Dual Laterolog (256-6252)

Compensated Densilog (4263-6263)

Contractor: Westburne Drilling Inc.

Completion Report Prepared by: M. L. Tomac

Remarks: API No. 4300930032

COMPLETION RECORD (cont.)

Page 2

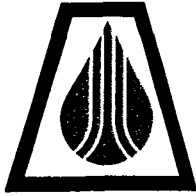
Well: Unit No. 41-S

Area: Clay Basin

Cored Intervals (recovery): None

Tabulation of Drill Stem Tests: None

<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FEP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
------------	-----------------	------------	-------------------	--------------------	-------------------	--------------------	------------	-----------------------	----------------



## QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400  
June 23, 1988

CERTIFIED MAIL

RETURNED RECEIPT REQUESTED

#P 879 571 459

Bureau of Land Management  
Utah State Office  
CFS Financial Center  
324 S. State Street  
Salt Lake City, UT 84111-2303

Re: Name Change  
Mountain Fuel Resources, Inc.  
to Questar Pipeline Company

Gentlemen:

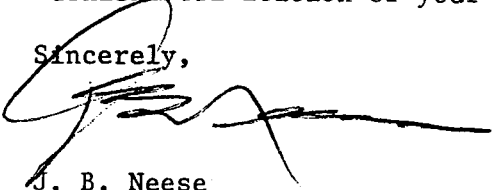
Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

*Now held on gas hold. with CA*  
*CA well - RT & OR's - Mtn. Fuel Resources*  
*U-9712-A - Questar Energy Co. 100%*  
*U-11246 - RT Agreement pending to "Questar Energy Co."*  
SLC-045051(A) > OR'S  
SLC-045051(B) > OR'S  
SLC-045053(A) > OR'S  
SLC-045053(B) > OR'S  
SLC-062508 - OR'S  
SLC-070555 - OR'S  
SLC-070555(A) - OR'S  
? Agreement No. 14-08-0001-16009  
(Clay Basin Gas Storage Agreement)  
*Vernal*

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,

  
J. B. Neese  
Senior Landman

JBN/sdg

Enclosure

List of Leases

Overriding Royalties

U-09712-A  
U-011246

Operating Rights

SL-045051-A & B  
SL-045053-A & B  
SL-062508  
SL-0700555  
SL-070555-A  
SL-045049-A & B

Clay Basin Gas Storage Agreement  
Agreement No. 14-08-0001-16009

3100  
U-09712-A  
et al  
(U-942)

*C. Seare*  
*3/9/89*

### DECISION

Questar Pipeline Company : Oil and Gas Leases  
P.O. Box 11450 : U-09712-A et al  
Salt Lake City, Utah 84147 :

#### Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

**/s/ M. Willis**

**ACTING** Chief, Minerals  
Adjudication Section

Enclosure  
List of Leases

cc: All District Offices, Utah  
MMS, AFS  
MMS, BRASS  
920, Teresa Thompson  
Clay Basin Unit File

CSeare:s1 3/9/89:1642f

RECEIVED

JAN 28 2004

DIV. OF OIL, GAS & MINING



## OPERATOR CHANGE WORKSHEET

## ROUTING

1. GLH

2. CDW

3. FILE

Change of Operator (Well Sold)

Designation of Agent/Operator

**X** Operator Name Change

Merger

The operator of the well(s) listed below has changed, effective:

3/7/1988

**FROM:** (Old Operator):

N1070-Wexpro Company  
PO Box 45360  
Salt Lake City, UT 84145-0360  
Phone: 1-(801) 534-5267

**TO:** ( New Operator):

N7560-Questar Pipeline Company  
PO Box 11450  
Salt Lake City, UT 84147  
Phone: 1-(801) 530-2019

CA No.

Unit:

**WELL(S)**

NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
CLAY BASIN UNIT 39-S	21	030N	240E	4300930030	1025	Federal	GS	A
CLAY BASIN UNIT 48-S	21	030N	240E	4300930044	1025	Federal	GS	A
CLAY BASIN UNIT 50-S	21	030N	240E	4300930046	1025	Federal	GS	A
CLAY BASIN UNIT 51-S	21	030N	240E	4300930047	1025	Federal	GS	A
CLAY BASIN UNIT 58-S	21	030N	240E	4300930054	1025	Federal	GS	A
CLAY BASIN UNIT 60-S	21	030N	240E	4300930056	1025	Federal	GS	A
CLAY BASIN U 11 (RD MURPHY 6-W)	22	030N	240E	4300915635	1025	Federal	GS	A
CLAY BASIN 28-S	22	030N	240E	4300930021	1025	Federal	GS	A
CLAY BASIN UNIT 32-S	22	030N	240E	4300930023	1025	Federal	GS	A
CLAY BASIN UNIT 36-S	22	030N	240E	4300930027	1025	Federal	GS	A
CLAY BASIN UNIT 54-S	22	030N	240E	4300930050	1025	Federal	GS	A
CLAY BASIN U 6 (RD MURPHY 3)	23	030N	240E	4300915630	1025	Federal	GS	A
CLAY BASIN U 10 (1 CL SPARKS)	23	030N	240E	4300915634	1025	Federal	GS	A
CLAY BASIN UNIT 29-S	23	030N	240E	4300930020	1025	Federal	GS	A
CLAY BASIN UNIT 31-S	23	030N	240E	4300930022	1025	Federal	GS	A
CLAY BASIN UNIT 44-S	23	030N	240E	4300930040	1025	Federal	GS	A
CLAY BASIN UNIT 45-S	23	030N	240E	4300930041	1025	Federal	GS	A
CLAY BASIN UNIT 57-S	24	030N	240E	4300930053	1025	Federal	GS	A
CLAY BASIN UNIT 41-S	26	030N	240E	4300930032	1025	Federal	GS	A
CLAY BASIN UNIT 42-S	26	030N	240E	4300930033	1025	Federal	GS	A
CLAY BASIN UNIT 43-S	26	030N	240E	4300930039	1025	Federal	GS	A

## OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 1/13/20042. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 1/13/20043. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 1/14/20044. Is the new operator registered in the State of Utah: YES Business Number: 649172-0142

5. If NO, the operator was contacted on: \_\_\_\_\_

6. (R649-9-2)Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 3/9/1989

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on:

n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on:

n/a

10. **Underground Injection Control ("UIC"** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on:

1/29/2004

2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on:

1/29/2004

3. Bond information entered in RBDMS on:

1/29/2004

4. Fee wells attached to bond in RBDMS on:

1/29/2004

5. Injection Projects to new operator in RBDMS on:

n/a

**STATE WELL(S) BOND VERIFICATION:**

1. State well(s) covered by Bond Number:

965003032

**FEDERAL WELL(S) BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number:

965002976

**INDIAN WELL(S) BOND VERIFICATION:**

1. Indian well(s) covered by Bond Number:

n/a

**FEE WELL(S) BOND VERIFICATION:**

1. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number

965003033

2. The **FORMER** operator has requested a release of liability from their bond on:

N/A

The Division sent response by letter on:

N/A

**LEASE INTEREST OWNER NOTIFICATION:**

3. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/29/2004

**COMMENTS:**

# NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	TwnsHP	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4300930050	22	030N	240E	Clay Basin Unit 54-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915630	23	030N	240E	Clay Basin U 6 (RD Murphy	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915634	23	030N	240E	Clay Basin U 10 (1 CL Sparks	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930020	23	030N	240E	Clay Basin Unit 29-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930022	23	030N	240E	Clay Basin Unit 31-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930040	23	030N	240E	Clay Basin Unit 44-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930041	23	030N	240E	Clay Basin Unit 45-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930053	24	030N	240E	Clay Basin Unit 57-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930032	26	030N	240E	Clay Basin Unit 41-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930033	26	030N	240E	Clay Basin Unit 42-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930039	26	030N	240E	Clay Basin Unit 43-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930042	26	030N	240E	Clay Basin Unit 46-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930051	26	030N	240E	Clay Basin Unit 55-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930052	26	030N	240E	Clay Basin Unit 56-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915628	27	030N	240E	Clay Basin U 4 (ES Lauzer 1)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930025	27	030N	240E	Clay Basin Unit 34-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930028	27	030N	240E	Clay Basin Unit 37-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930029	27	030N	240E	Clay Basin Unit 38-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930043	27	030N	240E	Clay Basin Unit 47-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage

Note to file: These entity numbers  
were changed to compliment the  
operator correction from 3/7/98